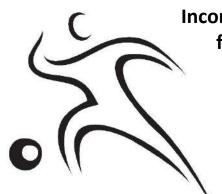






Amenity Product Guide

Incorporating BioActive products for Natural Methodology





Amenity Nutrition









For Quality, Service & Value

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Situated in the heart of Angus, Scotland's birthplace!







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Angus Horticulture Ltd

We're proud of our heritage as fertiliser manufacturers offering a highly flexible service and meeting customers' specific requirements. **Angus Horticulture** produce granular, sand based powder, soluble powder and liquid fertilisers as well as root zone amendments and our class leading **BioActive** range of products.

We produce some of the best fertilisers on the market today and supply them competitively throughout the UK, Ireland and much of Europe. An independent, small family business, we compete with competitors who are part of multi-national corporations and still continue to have at our disposal the most technically advanced and up to date raw materials and manufacturing processes to offer you, our customers, cutting edge products. Our family firm set up allows us to offer a flexibility of service and bespoke products even with low volumes.

Angus Horticulture is committed to high levels of customer service to all our customers, large or small. Product integrity is of high importance as is friendly and efficient contact with our customers.

A holistic approach to turf nutrition is important to us. We consider all aspects of root zone health and plant requirements. We continually revise our formulations and bring new products into our portfolio. We also offer much more than we can fit into this product guide, so please ask if you can't find something you require.

Please enjoy browsing our product guide and choosing which of these products most suit your requirements. If you require any advice, please don't hesitate to contact our office or your local **Angus Horticulture** distributor.



Angus Horticulture: Professional, turf nutrition specialists. For Quality, Service & Value.







ProloNg® technology

Nitrogen efficiency

ProloNg® fertilisers are formulated to overcome the problem of loss of applied nitrogen (N) by volatilisation, de-nitrification and subsequent leaching and are ideal for all sports turf applications.

Researchers estimate up to 50% of nitrogen applied worldwide is lost to the environment rather than utilised by plants. The naturally occurring enzyme 'urease' works to break down urea into a form that can volatilise causing a loss of nitrogen. Leaching of nitrate can also be a significant loss and damaging to the environment. ProloNg® uses technology that actively shields and manages nitrogen in the soil at molecular level. The shield prevents the action of urease on applied nitrogen and slows nitrification. This allows the plant improved access to stable forms of nitrogen throughout the growing season and without destroying the spectrum of naturally occurring soil bacteria and enzymes. ProloNg® technology is biodegradable, water soluble and leaves no adverse environmental footprint.

ProloNg®, by preventing nitrification, eliminates lush plant uptake of nitrates. This results in less flushes of unwanted growth, and reduction in soft tissue (stored protein in leaves) and therefore reduced disease susceptibility. ProloNg® manages your nitrogen increasing nitrogen use efficiency, enabling prolonged availability of applied nitrogen and ensuring root zone bio-diversity is maintained.

Benefits of **ProloNg®** include:

- Prolonged nitrogen availability from single application
- Improved utilisation and plant take up of applied nitrogen
- Promotion of tillering, increasing sward density
- Reduced waste nitrogen resulting in improved cost efficiency and reduced environmental impact by:
 - Preventing volatilisation
 - Slowing down nitrification
 - Preventing leaching

- Reduces unwanted growth flushes
- Safe, reduced scorch susceptibility formulations
- Reduces soft lush growth and disease susceptibility
- Protects water courses from nitrate pollution (less algae growth in ponds/lakes)
- Discourages annual grasses in greens (e.g. Poa annua) promotes perennial grasses
- Can safely be applied at any time of year when conditions allow
- Low salt formulations improving root zone environment and enhancing root activity
- Full range of granule sizes, pricing and formulations, to meet every turf managers requirements
- Proven technology, with scientific explanation; ProloNg® technology really works!
- Excellent grass colour

Many times over, users have reported healthier swards of better colour; this is due to the fact that when nitrogen is applied, at whatever time of year, with ProloNg® technology the plant will only assimilate its nitrogen requirements in the form of ammonium. The plant therefore has enough, but not too much nitrogen and is stronger/sturdier, healthier/less susceptible to damage (physical or disease pressure) and of improved appearance. There's no more requirement for 'artificial green-ups' using harmful products like iron sulphate.



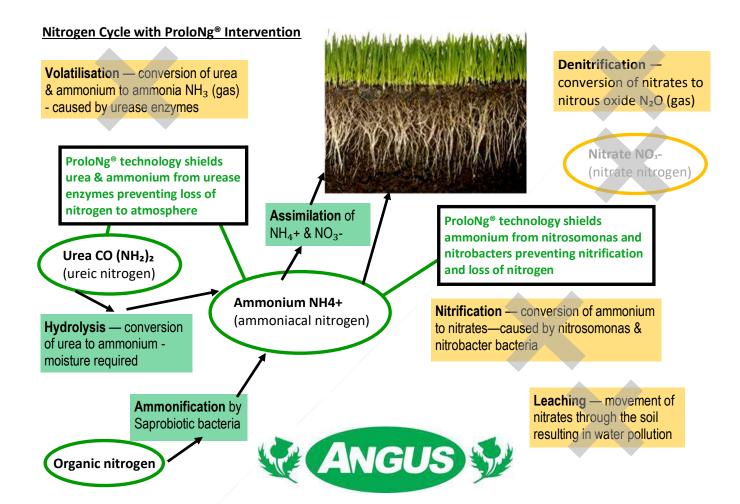




ProloNg® fertilisers

Nitrogen efficiency

Below is a diagram showing how **ProloNg**® effectively interrupts the nitrogen cycle demonstrating the benefits for turf management.



The Benefits: All applied Nitrogen is utilized by the plant

No N loss to atmosphere or water courses Long lasting, so less applications required

No lush uptake of Nitrates

Promotes tillering, increasing sward density

economic to budget and environment protecting environment and budget labour efficient & cost saving healthier & stronger plants improved playing surfaces

The solution: ProloNg®

Economically,

Agronomically &

Environmentally the best!







BioActive ProloNg® mini

Nitrogen efficiency

ProloNg® technology in our high quality, homogenous, mini granular fertiliser range, specifically formulated for high quality fine turf. These BioActive ProloNg® mini fertilisers offer:

Low salt formulations

Especially formulated to encourage and maintain healthy root zones, looking after the biota 100% of Nitrogen is treated with ProloNg® technology Safe to use throughout the year

BioActive ProloNg® mini

16 - 2 - 10 + 3% CaO + 2% MgO + 6% SO₃

Greens & Tees

64% of nitrogen (N) as ammonium with ProloNg® technology

36% of nitrogen (N) as urea with ProloNg® technology

100% of potassium from potassium sulphate

*Potential longevity:

spring/summer application, 2-3 months

autumn/winter application, 5-6 months

Rates of Application:

50g/m²

20kg bag treats 400m²

Now also available in micro 0.5-1.5 mm

granules

1-2.5mm granules

Nutrients applied per m² @ 50g/m²

 $8g N - 1g P_2O_5 - 5g K_2O + 1.5g CaO + 1g MgO + 3g SO_3$

BioActive ProloNg® mini

12 - 0 - 15 + 4% CaO + 3% MgO + 6% SO₃ + 1% Fe

Greens & Tees

75% of nitrogen (N) as ammonium with ProloNg® technology 25% of nitrogen (N) as urea with ProloNg® technology

25% of nitrogen (N) as urea with ProloNg® technology 100% of potassium from potassium sulphate

*Potential longevity:

spring/summer application, 8-10 weeks

autumn/winter application, 4-5 months

Rates of Application: 50g/m²

20kg bag treats 400m²

Nutrients applied per m² @ 50g/m²

 $6g N - 7.5g K_2O + 2g CaO + 1.5g MgO + 3g SO_3 + 0.5g Fe$ **1-2.5mm granules**

ProloNg® Soluble

ProloNg® Soluble

46 - 0 - 0

Greens, Tees, Fairways, Pitches

100% of nitrogen (N) as urea with ProloNg® technology

*Potential longevity:

spring/summer application, 10-12 weeks autumn/winter application, 5-6 months

Rates of Application:

20kg / ha in 200 litres of water

20kg bag treats 10,000m²

Nutrients applied per m² @ 20g/m²

9.2g N

approx. 1 mm soluble prills

*Longevities quoted are based on recommended application rates & are purely a guide, as plant variety, plant density and environmental conditions, as well as timing of application will dictate plant Nitrogen use and therefore the speed in which applied Nitrogen is utilised.







ProloNg® mini

Nitrogen efficiency

High quality homogenous mini granules for greens, tees and all sports surfaces

ProloNg[®] mini 24 - 3 - 7 + 3% CaO

Spring/Summer Fairway 44% of nitrogen (N) as ammonium with ProloNg® technology

Sports Pitches56% of nitrogen (N) as urea with ProloNg® technology 100% of potassium from muriate of potash

*Potential longevity: spring/summer application, 3-4 months

autumn/winter application, 5-7 months

Rates of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m^2 @ $50g/m^2$ 12g N $- 1.5g P_2O_5 - 3.5g K_2O$ 1-2.5mm granules

ProloNg[®] mini 18 - 3 - 18 + 2% CaO

Fairways & pitches 40% of nitrogen (N) as ammonium with ProloNg® technology

60% of nitrogen (N) as urea with ProloNg® technology 100% of potassium from muriate of potash

*Potential longevity: spring/summer application, 3-4 months

autumn/winter application, 6-8 months

Rates of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m^2 @ $50g/m^2$ 9g N $- 1.5g P_2O_5 - 9g K_2O$ **1-2.5mm granules**

ProloNg® mini 14 - 1 - 7 + 4% CaO + 3% MgO + 2% Fe

Tees & Approaches 90% of nitrogen (N) as ammonium with ProloNg™ technology

10% of nitrogen (N) as urea with ProloNg® technology

*Potential longevity: 100% of potassium from muriate of potash spring/summer application, 2-3 months

autumn/winter application, 5-6 months

Rates of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m² @ $50g/m^2$ 7g N - 0.5g P₂O₅ - 3.5g K₂O + 2g CaO + 1.5g MgO + 1g Fe**1-2.5mm granules**

ProloNg[®] mini 11 - 5 - 5 + 3% CaO + 8% SO₃

Spring greens & tees 100% of nitrogen (N) as ammonium with ProloNg® technology

100% of potassium from muriate of potash

*Potential longevity: spring/summer application, 8-10 weeks

Rates of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m² @ $50g/m^2$ 5.5g N – 2.5g P_2O_5 - 2.5g K_2O + 1.5g CaO + 4g SO_3 **1-2.5mm granules**

^{*}Longevities quoted are based on recommended application rates & are purely a guide, as plant variety, plant density and environmental conditions, as well as timing of application will dictate plant Nitrogen use and therefore the speed in which applied Nitrogen is utilised.







BioActive Prolong® fairway + sports pitches

Nitrogen efficiency

- Homogenous 1-3mm granules for good granule/nutrient distribution
- Ideal for fairways, outfields & sports pitches
- Low salt formulation for healthy root zones

BioActive ProloNg[®] fairway & sports pitches 18 - 2 - 18 + 2% CaO + 8% SO₃

100% of nitrogen with ProloNg® technology; 12% ureic, 6% ammoniacal 100% of potassium from potassium sulphate – low salt formulation

*Potential Longevity: Spring/Summer, 3-4 months or autumn/winter, 6-8 months

Rate of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m^2 @ $50g/m^2$ 9g N – 1g P_2O_5 - 9g K_2O + 1g CaO + 4g SO_3 1-3mm granules

ProloNg® fairway & sports pitches 28 - 3 - 10

100% of nitrogen with ProloNg® technology; 22.4% ureic, 5.6% ammoniacal

100% of potassium from muriate of potassium

*Potential Longevity: Spring/Summer, 5-6 months or autumn/winter, 8-9 months

Rate of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m² @ $50g/m^2$ 14g N - 1.5g P₂O₅ - 5g K₂O 1-3mm granules

- Blended 2-4mm granules
- Ideal for fairways, outfields & sports pitches
- Low & reduced salt formulations for healthy root zones

BioActive ProloNg® Pre-Seeder 12 - 10 - 18 + 4% MgO + 12% SO₃ + humates + seaweed

Blended Pre-seeder 80% of Nitrogen as urea with ProloNg® technology & 20% of N as ammoniacal

100% of Potash from Potassium Sulphate – low salt formulation

*Potential Longevity: Spring/Summer, 6-8 weeks or autumn/winter, 4+ months

Rate of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m² @ $50g/m^2$ 6g N – 5g P_2O_5 - 9g K_2O + 2g MgO + 6g SO_3 **2-4mm granules**

BioActive ProloNg® Grow-In 20 - 4 - 20 + 3% CaO + 1.5% MgO + 8% SO₃ + seaweed

92% of nitrogen as urea with ProloNg® technology & 8% of N as ammoniacal

*Potential Longevity: 52% of potassium from sulphate of potash – reduced salt formulation

Spring/Summer, 2-3 months or autumn/winter, 5-6 months

Rate of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m² @ $50g/m^2$ 10g N – 2g P_2O_5 - 10g K_2O + 1.5g CaO + 0.75g MgO + 4g SO_3 **2-4mm granules**

^{*}Longevities quoted are based on recommended application rates & are purely a guide, as plant variety, plant density and environmental conditions, as well as timing of application will dictate plant Nitrogen use and therefore the speed in which applied Nitrogen is utilised.







BioActive ProloNg®

Nitrogen efficiency

BioActive ProloNg® Just N 46 - 0 - 0

100% of nitrogen as urea with ProloNg® technology

*Potential Longevity: spring/summer application, 6-8 months

Rate of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m² @ 50g/m² 23g N **2-4mm granules**

BioActive ProloNg® s/s high N 28 - 3 - 15 + 1.5% CaO + 1% MgO + 5% SO₃

96% of nitrogen as urea with $ProloNg^{\circledast}$ technology & 4% of N as ammoniacal

52% of potassium from sulphate of potash – reduced salt formulation

*Potential Longevity: spring/summer application, 4-5 months

Rate of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m^2 @ $50g/m^2$ 14g N $- 1.5g P_2O_5 - 7.5g K_2O + 0.75g CaO + 0.5g MgO + 2.5g SO₃$ **2-4mm**

BioActive ProloNg[®] Late Summer 16 - 5 - 25 + 3.5% CaO + 1.5% MgO + 12% SO₃

88% of nitrogen as urea with ProloNg® technology & 12% of N as ammoniacal

52% of potassium from sulphate of potash – reduced salt formulation

*Potential Longevity: September application, 4-6 months

Rate of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m² @ $50g/m^2$ 8g N - 2.5g P₂O₅ - 12.5g K₂O +1.75g CaO + 0.75g MgO + 6g SO₃**2-4mm**

BioActive ProloNg[®] High K 15 - 0 - 25 + 4% CaO + 3% MgO + 10% SO₃ + seaweed

100% of nitrogen with ProloNg® technology

57.65% of potassium from sulphate of potash – reduced salt formulation Spring/Summer, 6-10 weeks or autumn/winter, 5-6 months

Rate of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m² @ $50g/m^2$ 7.5g N – 0g P_2O_5 - 12.5g K_2O + 2g CaO + 1.5g MgO + 5g SO₃ **2-4mm granules**

BioActive ProloNg® Autumn High K 10 - 0 - 30 + 7% CaO + 2% MgO + 10% SO₃ + seaweed

100% of Nitrogen with ProloNg® technology

52% of Potassium from Sulphate of Potash – reduced salt formulation

*Potential Longevity: October application, 5-6 months

Rate of Application: 50g/m² 20kg bag treats 400m²

Nutrients applied per m² @ $50g/m^2$ 5g N – 0g P_2O_5 - 15g K_2O + 3.5g CaO + 1g MgO + 5g SO_3 **2-4mm granules**

*Longevities quoted are based on recommended application rates & are purely a guide, as plant variety, plant density and environmental conditions, as well as timing of application will dictate plant Nitrogen use and therefore the speed in which applied Nitrogen is utilised.

best quality, best service, best value

*Potential Longevity:







Angus BioActive Products

Angus Horticulture have been at the forefront of the move to natural turf management and now have many years of experience in formulating, producing and using what we now call **Angus BioActive Products**. While not advocating the complete suspension of chemical nutrients we do believe, and indeed have proved, that it is possible to significantly reduce chemical inputs and in particular fungicides are frequently not required at all.

Using **Angus BioActive Products** as part of a planned programme for grass management enables sports turf managers to improve sward quality, plant health, playing surface and establishment of newly seeded areas. The range of products is now selling throughout Europe and word of mouth is promoting continually increased sales for this outstanding range of products.

Working with nature, encouraging natural biology to develop and thrive is where **Angus BioActive Products** work best. Once developing these fungal and bacterial colonies it's important to protect and nurture this natural life that so improves our root zones, plant health and nutrient availability. Angus Horticulture produce a range of reduced and low salt fertilisers that ensure the best possible outcome for plant and microbial life.

The next few pages (p.25 – 40) of the brochure detail **Angus BioActive Products** and pages 12 - 18 feature our reduced and low salt **BioActive ProloNg**[®] (micro, mini & 2-4mm) and **Turf Rise MU** fertilisers.

BioActive TE

A blend of chelated trace elements complexed with carbohydrates and humates. Using natural chelating compounds ensures these important trace elements are efficiently available to the plant. Often overlooked, trace elements (micro nutrients) are essential to all plants and providing a proportional balance of each of these nutrients helps to:

- Enhance plant colour
- Maintain plant health
- Improve disease resistance and stress tolerance
- Increase rooting and aid establishment of new turf grass surfaces
- Provide necessary nutrient for plant auxin and enzyme production and metabolism
- Prevent harmful side effects caused by micro nutrient deficiencies

Blend of chelated trace elements complexed with carbohydrates and humates

Contains proportionate levels of: boron (B), copper (Cu), iron (Fe), manganese (Mn), zinc (Zn)

And traces of: calcium (Ca), sulphur (S) and molybdenum (Mo)

As well as: 0.3% potassium (K), carbohydrates, humic & fulvic acid and seaweed

Application rates: 20 - 40 litres / ha in 300 - 500 litres of water Apply when required

Available in 10 litre containers







BioActive Invigo™ & Invigo™ Plus

These homogenized blends of plant extracts provide a superb organic based feed for all grass surfaces with the added advantage of the inclusion of iron (Fe) complexed with carbohydrates and humates. Formulated with more than 95% (Invigo) or 75% (Invigo Plus) organic or natural raw materials, providing both readily available and slow release macro and secondary nutrients.

- Improves turf density, root density and enhances plant colour
- Enhanced plant uptake of all major nutrients for strong plant growth
- Encourages healthy microbiology in the turf root zone environment
- Improves disease resistance & stress tolerance
- Fast recovery times
- Low salt formulation
- Safe & ideal for regular application throughout the growing season

BioActive Invigo™

7-2-3 + TE, humates & carbohydrates

Contains (w/v): 7% nitrogen (N), 2% phosphorus pentoxide (P_2O_5) , 3% potassium (K_2O) ,

0.73% calcium oxide (CaO), 0.12% magnesium oxide (MgO),

0.94% sulphur trioxide (SO₃), 0.01% iron (Fe)

As well as: Carbohydrates (25% sugars), humic & fulvic acid (>2.4% humic substances)

Application rates: 50 - 150 litres / ha in 300 - 500 litres of water

Nutrients supplied per ha @ 75lt/ha: 5.25g N, 1.5g P₂O₅, 2.25g K₂O + 0.55g CaO + 0.09g MgO + 0.7g SO₃

BioActive Invigo™Plus

7-0-3 + TE, humates & carbohydrates

Contains (w/v): 7% nitrogen (N), inc. 50% of N from MU, 3% potassium (K₂O),

0.6% calcium oxide (CaO), 0.5% magnesium oxide (MgO),

1.2% sulphur trioxide (SO₃), 0.01% iron (Fe)

As well as: Carbohydrates (25% sugars), humic & fulvic acid (>1.7% humic substances)

Application rates: 25 – 50 litres / ha in 300 - 500 litres of water

Nutrients supplied per ha @ 50lt/ha: 3.5g N, 1.5g K₂O + 0.3g CaO + 0.25g MgO + 0.6g SO₃

Available in 10, 200 & 1,000 litre containers

SG: 1.25 - 1.35









BioActive Formula Green™

With the success of the Angus **BioActive** range of products and the increased adoption of our natural methodology has come the demand for a product that combines the best of our range in to a single product. At our customers request we have formulated this concentrated, high quality blend and labelled it Formula Green™.

This homogenized blend of plant (inc. algae & fungi) extracts with a few low salt additives provide the base for any natural methodology programme or a superb tonic for any sports turf situation.

Contains the benefits of:

- Angus FeN[™] (p.23)
- O BioActive TE (p.25)
- BioActive MolTurf® (p.28)
- Angus BioActive Seaweed (p.29)
- Angus Humic & Fulvic Acids (p.30)
- Angus Amino Acids (p.40)

BioActive Formula Green™

Contains (w/v): 0.5% magnesium oxide (MgO), 1% iron (Fe), 0.01% boron (B),

0.03% Copper (Cu), 0.06% Manganese (Mn), 0.02% Zinc (Zn), + trace Mo

As well as: Carbohydrates (>20% sugars), Humic & Fulvic Acid (>4% humic substances)

Amino Acids (0.24%), Seaweed Extract (10%)

Application rates: 40 litres / ha in 200 - 300 litres of water

Available in 10 litre containers; shake well before use SG: tbc

In late autumn & winter consideration should be given to adding a little extra of the following products to the tank mix:

Angus FeN™ (1 litre/ha), Angus Humic & Fulvic Acid (3 litres/ha) and BioActive MolTurf® (6 litres/ha).











BioActive MolTurf®

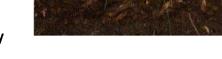
Concentrated Carbohydrates

Faster playing surfaces, increased stress resistance & recovery

BioActive MolTurf® is our award winning liquid carbohydrate. BioActive MolTurf® contains naturally sourced carbohydrates and trace elements that energise the turf grass plant metabolism and stimulates microbial activity around the root and leaves. BioActive MolTurf® is a natural carbon balancer that increases the efficiency of nitrogen utilisation allowing less nitrogen to be applied. BioActive MolTurf® provides a quickly available carbon food source for microbes that live around turf grass roots, thus helping to reduce fungicide and fertiliser applications. Use on all turf grass surfaces and root zones for faster playing surfaces.

Main benefits of **BioActive MolTurf®** on turf grass surfaces:

- Faster and improved playing surface
- Promotes the availability and ready uptake of mineral nutrients
- **Reduced applications of fertilisers**
- Increased ability to resist and recover from environmental stresses, e.g. freezing temperatures, extended heat etc.
- **Reduced disease susceptibility**
- Regular use can result in less nematode damage
- Helps to reduce thatch build up by improving the efficiency and recycling of nitrogen and carbon by soil microbes



Contains useful levels of furfural (typically 50mg/kg), high in sugars (> 40%)

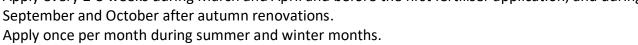
Application guidelines:

10 - 20 litres/ha when tank mixed with **BioActive Invigo™** and/or with **Angus BioActive Seaweed** in 300 - 400 litres of water

20 - 30 litres/ha when used on its own in 500 - 600 litres of water

Apply every 2-3 weeks during March and April and before the first fertiliser application, and during September and October after autumn renovations.

Available in 10 litre containers









BioActive Seaweed

Product Approved for Restricted Use in Organic Systems by SOPA (Certificate No.: \$1363E/0420/01).

This concentrated liquid seaweed extract derived from *Ascophyllum nodosum* without the use of chemicals is an industry leader. A great source of plant nutrients and organic carbon, **BioActive Seaweed** promotes strong & vigorous growth, excellent root development as well as increasing the plants ability to withstand pressure from disease and environmental stresses.

- Promotes strong root development
- Improves plants tolerance to environmental and biological stresses
- Encourages activity of beneficial microbes
- Results in stronger & healthier plants
- Concentrated natural formulation for best results
- Low application rates for greater affordability
- Increases plant vigour

BioActive Seaweed 30% solids

Typical analysis (w/v): 0.58% nitrogen (N), 0.29% phosphorus pentoxide (P_2O_5), 1.02% potassium (K_2O), As well as: magnesium (Mg), boron (B), copper (Cu), iron (Fe), manganese (Mn), molybdenum (Mo), zinc (Zn) And: alginates, amino acids, auxins, cytokinins, gibberllins, vitamins, betaines, fucoidan, laminarin, mannitol

Application rates: 3 - 5 litres / ha in 300 - 500 litres of water

Alginates (>24% content typically) improve soil structure; increasing humates, forming crumb structure, increasing soil aeration & aerobic bacteria, increases moisture retention. With mannitol (>10% content typically) a carbohydrate, trace elements (present in seaweed and the soil) are chelated and made available to plants. Amino acids (alanine, valine, glycine, isoleucine, serine, tyrosine & stress protecting amino-betaines); these Natural L-isomers are used by plants directly in the production of proteins. Auxins (>90 ppm content typically), plant hormones are essential for plant body development, enabling a plant to react to external conditions. Auxins stimulate cell elongation & promote root initiation.

Cytokinins (>285 ppm content typically) promote cell division and plant growth. Gibberellins (>150 ppm content typically) regulate plant growth & enzyme production, breaking dormancy and stimulating cell elongation causing plants to grow taller. Vitamins: A, B1, B2, B3, B5, B12, C, D, E, K, choline & carotene. Betaines (>0.04% content typically) aid plants to cope with stresses such as cold, heat, water deficient or high salt conditions and increases the tolerance of plants to abiotic stress. Fucoidan (>8% content typically) provides plant protection in strong sunlight and harsh environments. Laminarin (>20% content typically) accelerates seed germination and plant growth and elicits defense response in plants reducing infection of the plant by various diseases. Mannitol (>10% content typically) increases trace element availability, increases a plants tolerance to salt and osmotic stress and has a role in a plants response to attack from pathogens; reducing biotic & abiotic stresses. Mannitol decomposes readily & unlike cellulose, doesn't immobilise Nitrogen.

Available in 10 litre containers







Angus Humic & Fulvic Acid

Now part of the BioActive range and replaces BioActive Maxim™; Angus Humic & Fulvic Acid is a similarly high quality product with higher concentrations of humic & fulvic acid thus offering greater efficacy and better value.

We are proud to present our Angus Humic and Fulvic Acid derived from Lignite Ore offering compatibility and flexibility when mixing with most plant nutrient and tank mix formulations. Quality humate products help to:

- Improve soil structure
- Increase nutrient exchange and retention (by increasing CEC)
- **Enable plants to obtain nutrients more readily**
- Stimulate microbial growth
- Improve nutrient absorption & increase nutrient uptake
- Stabilise pH
- Increase stress tolerance within the plant
- Increase root development
- Improve seed germination
- Enhance shoot and root growth in turf
- **Encourage increased chlorophyll content within plant**

Angus Humic & Fulvic Acid is:

- Easily applied through all irrigation systems and spray application equipment
- A source of energy for soil microbes present in the root zone
- A source of organic carbon, sulphur and potassium necessary for healthy plants

Angus Humic and Fulvic Acid

liquid solution with lignite

Total potassium oxide [K₂O] 1.7% [1.4% K]

Rates of Application:

Foliar application

Root drench via irrigation etc. 8 litres product [in minimum 100 litres of water] / ha weekly 20 litres product [in minimum 250 litres of water] / ha monthly

Angus Humic and Fulvic Acid is a bio stimulant and not a fertiliser. As such it should always be used as part of a standard fertility program. Always read and follow label instructions. When tank mixing we strongly recommend a simple 'bucket test' prior to application in order to confirm compatibility although we do expect good compatibility with most other sprays.

Available in 10, 200 & 1,000 litre containers









BioActive KitoPlus™ Easy

Plant strengthener for all plants/crops/soils, natural plant elicitor

Dissolved chitosan hydrochloride (EU approved "basic substance" under Regulation 1107/2009) (40g/litre w/v) Product Approved for Use in Organic Systems by SOPA (Certificate No.: \$1363E/0420/01).

Modifying Plant-Microbial Interactions and Improving Crop Yields and Crop Quality

A natural, organic plant elicitor derived from chitin rich shell fish for turf managers desiring **high quality, healthy swards**. Reducing reliance on chemicals **BioActive KitoPlus™ Easy** is an effective plant growth promotant and plant elicitor; eliciting the plants defence mechanisms and enabling healthy, vigourous plants of good colour and resistant to damage from abiotic and biotic stresses. These products improve both the rhizosphere and phyllosphere encouraging beneficial microorganism populations, including mycorrhizae, enabling improved nutrient assimilation.

- Control of fungal diseases
- Effective against plant viruses by modifying the plant's response to infection
- Strong insecticidal activity in plant pests
- Effective at controlling root feeding nematode populations
- Alters the environment in the rhizosphere & phyllosphere to shift the microbial balance in favour of beneficial organisms and to the detriment of plant pathogens
- Improved resistance to both biotic and abiotic stresses
- Increases photosynthesis, vegetative growth and plant vigour
- Stimulates growth promoting microbes and antagonistic biological control agents
- Complexes plant nutrients aiding assimilation

Apply from leaf development (main shoot) to development of fruit; 4 – 8 applications per season

BioActive KitoPlus™ Easy

2.5 litres in 200 litres water / ha

Seed Dressing for improved germination:

25 ml / litre of water applied prior to sowing

Tank mixing with other pesticides or plant nutrient products is not recommended.

BioActive KitoPlus™ Easy available in 10 litre, 500 litre and 1,000 litre containers











BioActive FerroCarb™

Concentrated liquid iron with carbohydrates

Environmentally safe formulation of liquid iron and natural carbohydrates

BioActive FerroCarb™ is a blend of carbohydrate extracts, amino acids, and iron in a true solution formulation. **BioActive FerroCarb™** contains our unique blend of carbohydrates, amino acids and proteins for more effective penetration into the turf grass plant and utilisation in making chlorophyll molecules, and enhanced rooting and plant health. **BioActive FerroCarb™** reduces moss formation, provides aesthetic greening up, and blends with all liquid products in the BioActive range. **BioActive FerroCarb™** does not scorch turf grass leaves nor does it harm soil microbes when used at recommended rates. **BioActive FerroCarb™** is ecologically safe and an effective green-up formulation for turf grass surfaces.

Applying **BioActive FerroCarb**™ outperforms straight ferrous sulphate

Main benefits of **BioActive FerroCarb**™ on turf grass surfaces:

- Great colour for aesthetic appeal
- Safe for soil microbes
- Reduces moss formation
- Enhanced rooting
- Replaces the need for harmful Ferrous Sulphate
- Easily tank mixed and applied with other treatments in the BioActive range



Application guidelines;

Apply 20 - 40 litres per hectare diluted in 400 litres of water as required

Do not tank mix where instructions for other manufacturer's product(s) advise **against** use with stickers, wetters or other adjuvants.

Available in 10 litre containers







BioActive CT Activators

Compost Teas have been used for many years throughout the world and with significant benefits when brewed and used with education and understanding. Angus Horticulture is pleased to encourage this use of natural biology and by using **Angus BioActive CT Activators** turf managers can easily produce high quality and economical compost teas.

- Boost natural microbial content in root zones
- Increasing root mass
- Reduce damage from disease
- Enhanced nutrient assimilation by the plant
- Maintain healthy microbiology in the turf root zone environment
- Improves disease resistance & stress tolerance
- Safe & ideal for regular application throughout the growing season
- Improves soil / root zone structure

In order to get the best from any compost tea brew, it's important to add to the mix ingredients that encourage the specific type of biology that you're looking to mobilise; that's what **Angus BioActive CT Activators** facilitate. We advocate using compost from your own site (the best is often found under trees) where local strains (rather than imported foreign strains) of beneficial fungi & bacteria are likely to be the best for your environment. Where this isn't available Angus Horticulture can supply a high quality VermiCompost. With compost in the brewer, then choose a fungal or bacterial brew and add the required CT Activator.

CT Activator Fungal

A probiotic blend of humates, amino acids and plant extract proteins formulated to encourage the activity and increase of beneficial fungi

Application rates:

Up to 500 litres of compost tea, use 1 litre of **BioActive CT Activator** 500 – 1,000 litres of compost tea, use 2 litres of **BioActive CT Activator**

CT Activator Bacterial

erial A probiotic blend of mainly plant extract carbon & hydrogen formulated to encourage the activity and multiplication of beneficial bacteria

Application rates:

Up to 500 litres of compost tea, use 1 litre of **BioActive CT Activator** 500 – 1,000 litres of compost tea, use 2 litres of **BioActive CT Activator**

Available in 2 litre containers (12x 2 litres / outer)











BioActive RZ™

Balanced consortium of mycorrhizae fungi

Increased mineral nutrient uptake, pest & disease resistance, increased plant stress tolerance

BioActive RZ™ combines beneficial microbes with a vegetable based source of continuous release micro-nutrients, trace minerals, fulvic and humic acids. **BioActive RZ™** is carefully graded to ensure each particle contributes to the retention of moisture and nutrients in the soil. Mycorrhizae establish a symbiotic relationship with turf grass roots and a strong establishment results in mycorrhizae taking up nutrients from a far greater area than roots can reach. Mycorrhizae function in low pH environments and nutrient uptake is not affected by pH fluctuations in sand root zones. Mycorrhizae also provide a barrier to soil pests, e.g. nematodes, and help to control this important pest through their own defence capabilities.

Benefits of **BioActive RZ™**:

- Applied nutrients are used more efficiently, particularly in low pH root zones
- Enables turf roots to make better use of water
- Protection from pest & disease attack
- Increased establishment of new turf grass surfaces
- Increase plant stress tolerance & recovery
- Increased root mass and plant growth rates



Application Guidelines

Pre-seeding or laying new turf – apply at 1 - 2 tonnes per hectare to seed-bed before final preparation for sowing or laying turf

Established turf – apply at 0.5 - 1 tonne per hectare after aeration

Available in 20kg bags & 1,000kg bulk bags









BioActive Magnet™

High quality clinoptilolite

Retention of nutrients & water and buffering of pH in sand-based root zones; soil improver and remineraliser

BioActive Magnet™ is a high quality clinoptilolite processed from basaltic volcanic ash that contains a useful source of slow release plant nutrients. BioActive Magnet™ increases nutrient retention and reduces fertiliser requirements in the root zone by increasing the Cation Exchange Capacity (CEC) and establishing a replenishable nutrient supply. The dimensions of the channels are large enough to enable molecules as big as a few tenths of a nanometer to penetrate, while small enough not to capture large complex molecules such as amino acids, vitamins and other biological macromolecules. The framework of clinoptilolite acts as a selective adsorption sieve that some molecules escape and others will not. Moisture retention is also increased because of the porous structure of the material. BioActive Magnet™ maintains and improves the ability of the root zone to drain, provide aeration and to withstand intense traffic.

BioActive Magnet[™], applied either by top dressing to existing turf grass surfaces, or used as an amendment on new constructions, has the following benefits;

- Helps to establish soil microbe populations
- Adsorption of soluble nutrients leads to reduced leaching to water courses
- Holds nutrients & moisture as plant available and prevents leaching
- Porous granules increase soil aeration resulting in healthier turf and greater oxygen availability
- Improves seed germination rates
- Robust granules resist soil compaction



In addition, the use of **BioActive Magnet™** as a perch layer on top of course backfill when installing drainage systems will minimise the loss of nutrients to ground water, helping to reduce nitrogen pollution and eutrophication.

BioActive Magnet™ 0.5 – 1mm other sizes available to order

Contains: Potassium (K), Calcium (Ca) and Magnesium (Mg) in slow release form

Application: Apply at any time of year

Apply to root zone before seeding or turfing 1 – 4 tonnes / hectare

Apply by itself or mixed with top dressing after aeration and brush into root zone 0.5 - 1 tonne / hectare

BioActive Magnet™: naturally occurring hydrated alumino-silicate of alkaline metals and alkaline earth metals of volcanic origin. The structure of clinoptilolite consists of three-dimensional framework which consists of silicate tetrahedrite (SiO₄)⁴⁻ each interconnected via oxygen atoms; the atoms of silicon is replaced by aluminium (AlO₄)⁵⁻ way, creating a characteristic spatial structure with a significant incidence of cavities, interconnected by channels, in which metal cations, or water molecules are stored. Experiments show that by adding 15% **BioActive Magnet™** to sand the water holding capacity increases by 45-50%.

Available in 20kg bags and bulk bags







BioActive Thatch Reduce™

A carefully selected amalgamation of fungal & bacterial species formulated to efficiently break down thatch. Provided in an easily applied dispersible powder, this product will effectively remove unwanted organic matter, releasing humus and nutrients to the root zone.

- Effectively reduces thatch in all sports turf situations
- Optimises organic matter degradation
- Increases humus content in the root zone
- Releases nutrients for plant assimilation
- Improves root zone structure
- Reduces requirement for mechanical thatch removal, so less playing surface disruption
- Prevents build up of excessive organic matter in turf grass surfaces

BioActive Thatch Reduce™

Apply at times when soil temperatures are above 7°C

Minimum 250g (max. 1kg) **BioActive Thatch Reduce**™ in 200 – 300 litres of water / ha
For best results apply **BioActive MolTurf**® @ 20 litres/ha soon after application of **BioActive Thatch Reduce**™

Further applications at minimum 4 week intervals may be required where thatch is particularly prevalent.

BioActive Thatch Reduce™ is not a fertiliser and should be used as part of a fully planned and monitored fertility programme.

Available in 1kg sachets







BioActive AquaClear™

A combination of natural bacteria that restrict availability of nutrients to algae in water. BioActive AquaClear™ uses natural bacterial ability to utilise phosphorus and nitrogen compounds for growth. Organic wastes of pond life and fertiliser run-off results in soluble phosphorus and nitrogen that stimulate the overgrowth of algae.

- Helps maintain balanced eco-system in lakes & ponds
- Prevents the development of algae bloom
- Reduces harmful organic waste
- Maintains healthy, clean & clear water

Bacteria can use very simple compounds as food nutrient sources. They actively grow on fertiliser and excreta. Nitrogen and phosphorus are used by bacteria in very similar ways to that of simple plants, such as algae. Unlike algae, most bacteria do not require sunlight for energy and some do not even need oxygen. The breakdown of carbon compounds in the environment provides the energy needed for bacteria. These carbon compounds, if derived from solely organic sources, may not be adequate for metabolism of large amounts of nitrogen and phosphorus. Bacteria require a balanced diet complete with micronutrients for optimum growth. **BioActive AquaClear™** provides these missing components along with strains of bacteria that can naturally metabolise the excess nitrogen and phosphorus in the pond eco-system.

By deriving energy from carbon compounds rather than from photosynthesis, bacteria can work day and night, thus they do not cause diurnal variation in dissolved oxygen characteristic of large algae populations. This nutrient removal ability without the need of sunlight, gives bacteria a substantial advantage in the utilisation of nutrients. **BioActive AquaClear™** is not an algaecide, it is a blend of natural micro-organisms and growth accelerators that remove excess nutrients from the water column.

Some bacteria known as facultative anaerobes do not require free nitrogen and grow by utilising compounds such as Nitrate (NO_3) as an oxygen substitute in their metabolic process. These bacteria not only use ammoniacal nitrogen as a building block but by using nitrogen compounds as an energy source they also help to maintain a balanced pond eco-system by limiting the levels of nitrogen compounds. Bacteria will help eliminate many harmful components that may be found in pond water. Clean and clear water with the extra bonus of increased oxygen content are some benefits of the bacterial treatment.

BioActive AquaClear™

Application Guidelines

Apply directly to area to be treated; this product should not be pre-hydrated.

Initial dosage: 2.2kg per 1,000 m³
Maintenance dosage: 368g per 1,000 m³

The maintenance dosage should be applied every two weeks until desired results are achieved

BioActive AquaClear™ may cause temporary elevation in demand of oxygen during initial use.

Available in 250g sachets







BioActive AcidipHier™ & BioActive Liquid AcidipHier™

A concentrated, naturally occurring, organic chelating agent that promotes healthy plants and is fundamental to all aerobic lifeforms. Complexing with metallic cations BioActive AcidipHier™ improves nutrient uptake and is transported throughout the plant affecting a wide range of plant functions promoting health & vigour.

- Promotes metabolism of beneficial microbes
- Chelates or complexes nutrients increasing availability to the plant
- Improves plants tolerance to environmental and biological stresses
- Results in stronger & healthier plants
- Concentrated natural formulation for best results
- Available as a soluble crystal for easy dissolving and low cost application
- Contains 2-hydroxypropane-1,2,3-tricarboxylic acid hydrate (C₆H₈O₇.H₂O)

BioActive AcidipHier™

Apply at times when plant health is of most importance: 30kg / ha in 300 - 600 litres of water

Or at times of increased plant stress: 40kg / ha in 300 - 600 litres of water

Available in 25kg bags

BioActive Liquid AcidipHier™

Apply at times when plant health is of most importance: 120 litres / ha in 300 - 600 litres of water

Or at times of increased plant stress: 160 litres / ha in 300 - 600 litres of water

Available in 10 litre bottles

A vitamin supplement which in turn creates a stronger host enabling it to create pathogeneses related protein which have an enormous effect on creating lignin by molecular crossing in cell which adds to pathogen protection.

This product can also be used for acidifying water and reducing bicarbonate content; dose rates are specific to water source and can only be offered on sight of recent source water analysis results. NB: It's important to ensure that bicarbonate content is not allowed to drop below 50mg/l.







Angus Sports Turf Root Developer

Now part of the BioActive range - BioActive Root Developer

For Rapid Development and Lower Cost Maintenance of Seeded or Turfed Sports Surfaces

Angus Sports Turf Root Developer is a high quality inoculant containing a range of different species of beneficial Endo mycorrhizae and a range of beneficial bacteria species. Containing 50,000 propagules/g of mycorrhizae and 10⁷ of bacteria (20 different species & strains) in an optimised ratio, Angus Sports Turf Root Developer provides an ideal solution for populating root zone soils and establishing biological activity.

Our product offers the following benefits:

- Faster grow in and establishment of new greens and pitches
- Promotes establishment and longevity of fine grasses
- Stimulates and promotes root growth increasing root mass
- Enhances nutrient uptake
- Increases plant tolerance to drought and stress conditions
- Healthy grass is less susceptible to damage and recovers faster from disease

Angus Sports Turf Root Developer

Application: 1-2kg/ha incorporated into the top 10mm of the root zone immediately before seeding or turfing.

For an existing sward, micro tine the turf and apply at 1kg/ha diluted in water and use low pressure application equipment. Water in immediately and again the following day in the absence of rain. Apply during the growing season only.

Grass grown in a biologically active root zone needs less fertiliser, especially lower phosphate values than usual. We recommend that available phosphate does not exceed 15ml/kg in the soil.

The soil in new sand-dominated sports pitches is almost sterile. **Angus Sports Turf Root Developer** contains live spores of beneficial mycorrhizal fungi, growth-promoting soil fungi and bacteria, carbon, and organic soil nutrients to kick-start the soil's natural food web. This is essential for rapid establishment of newly seeded or turfed areas and to improve grass root growth and stress recovery.

Mycorrhizae are essential for grass health, attaching to the roots, they can increase the surface area for nutrient and water uptake by over 300%.

Bent, fescue and rye grasses rely heavily on mycorrhizal and other soil fungi for survival in nature. In sports turf, levels of mycorrhizae are low or non-existent due to near sterile soils, compaction, chemical and high inorganic nutrient use. The result is a weakened sward, which suffers more from drought stress, nutrient leaching, and disease and is quickly dominated by *Poa annua*, a grass that relies less on mycorrhiza for its survival in sports turf environments and more on seed head production.

Precautions: Mycorrhizal fungi are susceptible to some systemic fungicides that may adversely affect activity. Mycorrhizal fungi are effective in the soil with a pH between 3.5 & 8.0. For best results use low salt fertilisers; e.g. **Turf Rise Granular** or **BioActive ProloNg™ mini** low salt fertilisers.







Angus Amino Acids Now part of the BioActive range; BioActive Amino Acids

Balanced Range of Amino Acids in a Fully Soluble Powder Form

Until the 1990s, scientists thought plants could only absorb nitrogen in inorganic forms. It is now known that they can absorb organic nitrogen too and applying amino acids can markedly improve plant growth and health. However, not all amino acid products are created equal and some can actually harm your crop!

Angus Amino Acids

- Highly concentrated source; 64% amino acid
- Natural L-isomers only; plants can use these directly in the production of proteins
- High quality blending of amino acids; this is essential to prevent toxic 'feedback inhibition' which occurs
 when applying single compound treatments. Angus Amino Acids are particularly high in glutamine;
 known to be essential for optimizing the partitioning of nitrogen to maximize yields.
- Low salt formulation
- Contain useful levels of N, P & K (N 10% : P_2O_5 3.6% : K_2O 8%)

Solutions of Angus Amino Acids provide a bioavailable nutrient source for a wide variety of crops. Regular foliar application provides:

- Strong and sustainable vegetative growth
- Increased crop yield and quality
- Improved resistance to environmental stresses
- Enhanced disease resistance
- Increased Brix levels in fruit crops

Angus Amino acids content % dry weight

	•	0		
Alanine	4.88		Lysine	6.19
Arginine	6.48		Methionine	1.11
Aspartic Acid	5.80		Phenylalanine	2.51
Glutamine	9.00		Proline	2.57
Glycine	2.82		Serine	2.82
Histidine	1.23		Threonine	2.88
Isoleucine	2.90		Tyrosine	1.60
Leucine	4.30		Valine	6.23

Angus Amino Acids balanced range of amino acids in a fully soluble powder form

Application rate: 150g/ha every 10-14 days during growing season

Dissolve in sufficient water to get good leaf coverage and spray to run-off

Available in 250g & 1kg packs

Angus Amino Acids can be used in combination with other foliar applied products. No known incompatibilities exist but Angus Horticulture Ltd cannot predict or guarantee mix success for any product. Always conduct a bucket test to conform compatibility. Do not store dilute solutions for more than three days and clean out spray equipment with fresh water after use. Follow handling, storage and transportation procedures as outlined in MSDS.







Gypsum Granules

Gypsum, also known as **calcium sulphate**, has been widely used in farming for many years. Angus Horticulture are now able to offer the amenity sector superb granular gypsum that is ideal for flocculating clay soils to reduce and prevent water logging as well as offering additional benefits:

- Improves soil/root zone structure, aeration and drainage
- Creates friable soil and builds deeper top soil/root zone
- Reduces soil compaction and cracking, decreases swelling of clays
- Reduces surface crusting and improves seedling emergence
- Excellent source of calcium [Ca] and sulphur [S]
- Does not alter soil/root zone pH
- Increases microbial activity
- Stabilises organic constituents of soil and amends sodium affected soils

Gypsum 2-5mm granules

Contains: calcium oxide [CaO] 39% [28% Ca] & sulphur trioxide [SO₃] 55% [22% S]

Rates of Application: 50g/m² – use higher rates for acute areas of soil compaction/water logging

Apply at any time of year, preferably when the soil is moist

500g/m² when incorporating into the root zone

Available in 20kg or 25kg bags and bulk bags – a lead time applies, please order early

Lime Granules

Our granular lime is used to manage pH in soils and offer additional benefits:

- Immediate pH adjustment with rapid absorption on contact with soil moisture
- Increasing availability of plant nutrients; increasing utilization of expensive fertiliser
- Useful source of calcium (Ca) and magnesium (Mg)
- Easy application with standard fertiliser spreaders for even and accurate spreading
- Easy product handling even in windy conditions less product = less handling
- Up to five times more efficient than ordinary ground limestone

The greater reactivity of the ultra-fine lime particles that we use ensures a higher and more rapid pH adjustment. Test results showed that this increased efficiency can last for 200 days and beyond.

Calcium Carbonate CaCO₃ 2-5mm granules

Total Neutralizing Value [TNV]: 54%

Contains: calcium oxide [CaO] 42.5% [30% Ca] & magnesium oxide [MgO] 6.8% [4% Mg]

Rates of Application: 60 – 200kg/ha [6-20g/m²] depending on soil type for adjustment of pH by **0.1**

300 - 1000 kg/ha [30-100g/m²] depending on soil type for adjustment of pH by **0.5**

Always test your soil/root zone to determine lime requirements Available in 20kg or 25kg bags and bulk bags







Angus Turf Tonic Fish Blood & Bone 8-8-7 + TE

Product Approved for Restricted Use in Organic Systems by SOPA (Certificate No.: \$1363E/0420/01).

Angus Turf Tonic is an organic liquid fertiliser formulated specifically to provide efficient use of nutrients and a fast response, boosting colour and promoting healthy growth safely. Easily tank mixed and works well on all grass types to produce the best results when used in conjunction with the provision of all necessary plant nutrients and soil requirements.

Fish Blood & Bone Liquid Suspension 8-8-7 + 1.3% CaO + 0.3% MgO + 2.7% SO₃ + Trace Elements, B, Cu, Fe, Mn, Mo & Zn

Rate of Application: 20 litres / hectare in 200 - 500 litres of water, monthly

Use lower rate (15lt/ha) if increase in growth is not required, or if using frequently at 10 - 14 day intervals over a period of several months

Application timing: Safe to use at any time, use with other sprays for efficiency

Use when plant has an urgent requirement for nutrients
Use at times of plant stress including water logging

Application method: Best used as a foliar feed but also effective used as root zone drench

Benefits

- Extremely efficient source of essential plant nutrients, promoting strong, lush and healthy growth
- Provides a kick start to growth, particularly in cold, wet or waterlogged conditions
- An excellent plant tonic giving a boost/perk to the plant at any time
- Helps as a sticker/spreader to other foliar nutrients, improving their efficacy
- Organic fertiliser, formulated from fish meal and kali-vinasse for foliar or liquid feeding
- Suitable for all crops, providing a compliment of essential plant nutrients including Calcium
- Rapid take up by foliage and roots
- Gives quick return to healthy colour
- Organic constituents (proteins, amino acids & globulins) decompose slowly to provide additional nutrient release and improved microbial activity in the root zone
- Non scorching and ideal for seedlings and stressed plants
- Contains natural growth promoters; gibberellic acid and triacontanol

Available in 10 litre containers







Angus Phosphite

Potassium Phosphite 4-25-16 w/w

Angus Phosphite is formulated specifically to encourage healthy growth, good colour, fast root establishment and disease resistance. Easily tank mixed with a wide range of plant nutrients and crop protection products **Angus Phosphite** works on all grass types to produce the best results when used in conjunction with the provision of all necessary plant nutrients and soil requirements.

Angus Phosphite 4-25-16 w/w – phosphorus with a difference

Rate of Application: 5 litres / hectare in 200 – 500 litres of water

Application timing: monthly or 10 – 14 day intervals at times when rooting is to be encouraged

or at times of particular disease pressure or for winter protection

Application method: Best used as a foliar feed but also has benefits used as a root drench

Benefits

- Increased plant and root development
- Provides a quick start to rooting even in cold & wet conditions
- An excellent plant tonic giving a boost/perk to the plant at any time
- Thickens cell walls, increasing plant health and reducing susceptibility from cold and disease pressure
- Phosphite [PO₃] is highly mobile within the plant, especially in the phloem and therefore very efficient
- Safe to use
- Compatible with most agrochemicals

Unlike nearly all the phosphorus that is widely used in horticulture and agriculture this phosphorus is not in the form of phosphate! It is instead a much more freely available and highly mobile within the plant form called phosphite; just one less oxygen molecule $[PO_3 \text{ not } PO_4]$ making a huge difference to the efficiency of that phosphorus applied. Best applied as a foliar application it is quickly absorbed translaminally, mobilized in the phloem and taken to the roots where root activity is increased, root growth promoted and nutrient uptake through the roots improved.

A chain reaction within the plant stimulating phytoalexins, SAR genes, etc., result in thicker cell walls meaning that plants are stronger, hardier and better able to withstand stress from disease pressure. Our turf tonics are not fungicides, but it may be possible to reduce the use of fungicides when used in conjunction with potassium phosphite. Please consult your FACTS & BASIS qualified Angus Horticulture agronomist for further advice.

Phosphite delivers essential phosphorus in a form that helps to boost plant health by maximizing enzyme potential to fight off infection in periods of stress from disease.

When tank mixing, bucket test first to ensure compatibility.

Available in 10 litre containers